



SANYO

**SANYO
STEREO TURNTABLE
TP1200/TP1200UM
SERVICE MANUAL**



SPECIFICATIONS

Motor	DC Brushless motor
Drive system	Direct drive
Speeds	33-1/3 & 45 rpm
Speed control range	Individual controls: ±3%
Speed change	Electronic type
Wow & Flutter	Less than 0.04% WRMS
Signal to noise ratio	Better than 60 dB
Turntable platter	12-1/8" (306mm) dia. 3 lbs. 3 ozs. (1.5Kg)
Tone arm	Static-balance type, S-shaped
Tracking error	±1°
Tracking force range	0 - 3g
Cartridge	Magnetic stereo cartridge
Stylus	0.5 mil diamond stylus
Stylus pressure	1.2 - 2.0g
Frequency response	20 - 25,000 Hz
Channel separation	Better than 25 dB
Power source	120/200/220/240V 50/60Hz (TP1200) 110/125/220V 50/60Hz (TP1200UM) 240V 50/60Hz (TP1200 Aus)
Power consumption	6W
Dimensions	18-7/8" (W) x 6-1/4" (H) x 16-9/16" (D) (479 x 158 x 410mm)
Weight	20 lbs. 3 ozs. (10.0 Kg)

PARTS LIST (TP1200)

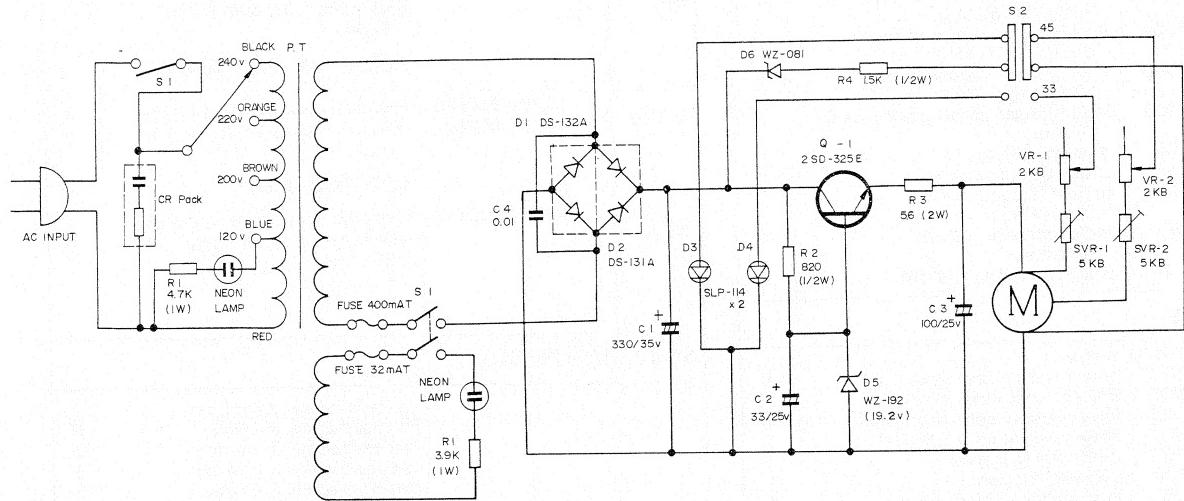
Key No.	Part No.	Description	O'ty
PACKING			
	141-6-113T-56202	Individual carton (exc. Aus)	1
	141-6-113T-56205	Individual carton (in Aus)	1
	141-6-144T-29700	Styrol filler, Set & Dust cover	2
	141-6-144T-27500	Styrol filler	1
	141-6-316T-67400	Pad, Dust cover bottom	1
	141-6-316T-67500	Pad, Top side	1
		Pad 300 x 300mm, Turn table under	2
		Pad 458 x 355mm, Turn table top	2
	141-6-316T-67800	Pad, Top side	1
	141-2-143T-66300	Marking plate, 33/45 indicate	1
		Polyethylene bag 100 x 200mm,	2
		Power cord Output cord	1
		Polyethylene bag 100 x 100mm,	1
		Oil case	
	141-6-316T-62500	Pad, Dust cover mtg.	2
	141-6-411T-75200	Instruction booklet	1
		Inner polyethylene bag	
		600 x 700mm, Set	
		Inner polyethylene bag	2
		350 x 400mm, Sheet & Turn table	1
		Inner polyethylene bag	
		550 x 700mm, inside dust cover	1
		Inner polyethylene bag	
		550 x 600mm, Outside dust cover	1
		Polyethylene bag 250 x 350mm.	1
		Instruction booklet, etc.	
		Inner polyethylene bag	1
		100 x 100mm. Cartridge	
	141-6-455T-01101	Sirial number Plate	2
ACCESSION			
	141-0-197T-001911	Oil pack assembly	1
	4-235R-11801	Socket, England 2 pin type (exc. Aus)	1
	4-235R-11802	Socket, Siemense 2 pin type (exc. Aus)	1
CABINET			
	141-0-121T-131910	Deck panel assembly (exc. Aus)	1
	141-0-121T-131911	Deck panel assembly (in Aus)	1
	141-0-194T-003912	Dust cover assembly	1
	141-2-361T-11100	Bracket, Speed select switch mtg.	1
	141-2-421T-13800	Special screw, Speed select switch mtg.	3
	141-2-445T-05000	Rubber cushion, Speed select switch mtg.	3
	141-2-289T-01600	Adhesive film, Dust cover mtg.	4
	141-2-445T-16000	Rubber cushion, EXIT the output cord	1
	141-2-461T-20700	Pipe, PT mtg.	2
	123-2-445R-01600	Rubber cushion, PT mtg.	2
	141-2-411T-04700	Plate nut, PT mtg.	2
	141-2-352T-12600	Spacer, LED support	3
	141-2-363T-03400	Bracket, CR combination	1
		Fiber washer 3 x 8 x 1mm, LED support	3
	141-2-126T-17700	Back lid	1
	141-2-118T-00200	Turn table	1
	141-2-246T-08500	Sheet	1
	141-2-161T-26500	Push button, Power switch	1
	141-2-161T-26600	Push button, Speed select	2
	141-0-174T-00200	Stand assembly	4
	141-2-251T-05900	Hinge, Dust cover mtg.	2
	141-2-251T-06001	Hinge, Deck Panel mtg.	2
	141-2-352T-14300	Spacer, 45 adaptor	1
	141-2-135T-40400	Cover, 33/45 select	1
	141-2-241T-15800	Veil, Speed select switch	1
	141-2-241T-15900	Veil, Power switch	1
	141-2-365T-31700	Bracket, Power supply switch	1
	141-2-246T-08600	Sheet, Dust cover protect	1
		Rubber sheet 17 x 10 x 1mm, Neon lamp mtg.	1
	141-2-445T-18200	Rubber cushion, Stand	1
	141-2-135T-42100	Cover, Head shell	1
		Fiber sheet 3.2 x 10 x 3.2mm	3

PARTS LIST (TP1200)

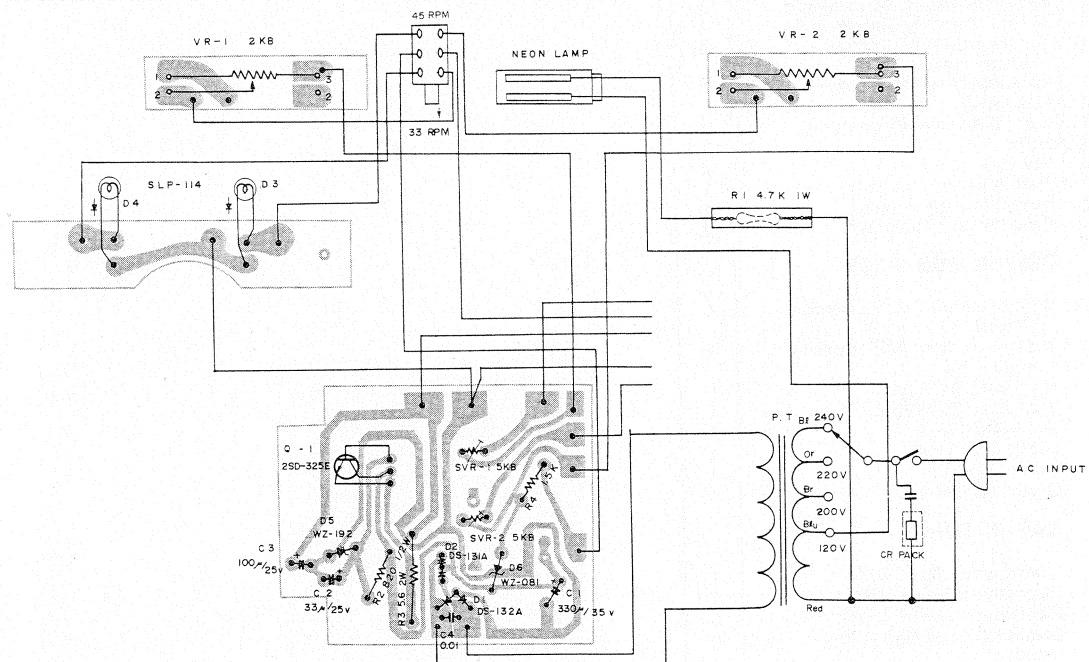
Key No.	Part No.	Description	Q'ty
CABINET			
	141-2-441T-04800	Felt cushion, PT	1
	141-2-322T-28200	Shield plate, Under arm	1
	141-2-367T-28400	Bracket, Power supply cord socket (exc. Aus)	1
	141-2-367T-28300	Bracket, Power supply cord socket (in Aus)	1
	141-2-464T-11800	Fixer, Power supply cord socket (exc. Aus)	1
	141-2-464T-14400	Fixer, Power supply cord socket (in Aus)	1
	141-2-371T-06801	Bracket, PT mtg.	1
	141-6-479T-16301	Label, Stylus mirror	1
	141-6-476T-05700	Indication label 400mA (Aus only)	1
	141-6-476T-05800	Indication label 32mA (Aus only)	1
	141-0-864T-001910	Bracket assembly, Mirror	1
ELECTRICAL PARTS			
S1	4 527T-08700	Motor	1
	4-251T-47700	Power transformer (exc. Aus)	1
	4-251T-49900	Power transformer (in Aus)	1
	4-243R-00100	Power supply cord (exc. Aus)	1
	4-243T-76600	Power supply cord (in Aus)	1
	4 231T-51900	Push switch, Power	1
	4-227T-01000	CR combination	1
	4-231T-42300,	Push switch, 33/45 select	1
	123-2-472R-11200	Terminal lug	1
	4-243T-13200	Cord assembly, Output cord	1
R1	123-2-464R-10901	Fixer, Output cord	1
	4-612T-04700	Neon lamp	1
	141-2-382T-02000	Terminal clip	1
	141-2-163T-30500	Rotary knob, VR mtg.	2
	141-2-327T-06900	Insulator, Output cord fixer	1
	4-231T-37603	Metal oxide film 4.7K ohm ±10% 1W (exc. Aus)	1
		Metal oxide film 3.9K ohm ±10% 1W (in Aus)	1
		Switch, Voltage select, (exc. Aus only)	1
	141-0-743T-01000	Arm assembly	1
	141-0-872T-00191	Lifter assembly	1
SVR1,2	141-0-873T-00191	Rest assembly	1
	141-0-687T-00991	Weight assembly, Main weight	1
	141-0-687T-01091	Weight assembly, Sub weight	1
	141-0-687T-01191	Weight assembly, Lateral balance weight	1
	141-0-243T-08191	Base assembly, Lifter base	1
	141-2-286T-00200	Head shell	1
	4-156T-00191	Cartridge assembly w/stylus	1
	141-2-743T-03500	Arm	1
	4-157T-00500	Stylus	1
	4-234T-01700	Fuse 400mA (Aus only)	1
Q1 D1 D2 D5 D6	4-234T-04600	Fuse 32mA (Aus only)	1
	141-2-383T-01300	Fuse holder (Aus only)	2
	POWER PCB ASSY		
	4-226T-600912	Printed circuit board assembly, POWER	1
	4-222T-30700	Variable resistor 5KB, Speed variable	2
	147-2-368T-02300	Heat sink, Q1 mtg.	1
		Transistor 2SD325 E	1
		Diode DS-132 A	1
		Diode DS-131 A	1
		Diode WZ-192	1
C2 C3 C1 C4		Diode WZ-081	1
	CAPACITORS		
		Electrolytic 33μF 25WV	1
		Electrolytic 100μF 25WV	1
R2		Electrolytic 330μF 35WV	1
		Ceramic 0.01μF +80 -20% 50WV	1
RESISTORS			
R2		Solid type 820 ohm ±10% 1/2W	1

Key No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
R3		Metal oxide film 5.6 ohm ±10% 2W	1
R4		Solid type 1.5K ohm ±10% 1/2W	1
VR1,2	4-226T-808910 4-222T-45600	SLIDE VR PCB ASSY Printed circuit board assembly, Variable resistor 2KB, Rotary slide	2
D3,4	4-226T-809910	LED PCB ASSY Printed circuit board assembly, Luminous emission diode SLP-114	1
			2
SCREW MOUNTING			
		Pan head screw 2.6 x 6mm	2
		Pan head screw 3 x 6mm	5
		Pan head screw 3 x 8mm	2
		Pan head screw 3 x 14mm	1
		Pan head screw 4 x 6mm	3
		Pan head screw 4 x 14mm	2
		Flat head screw 4 x 10mm	4
		Tapping screw 3 x 6mm	2
		Tapping screw 3 x 8mm	10
		Tapping screw 3 x 10mm	2
		Tapping screw 3 x 12mm	3
		Tapping screw 3 x 14mm	13
		Tapping screw 4 x 8mm	6
		Nut 3mm	1
		Washer 3mm	4
		Washer 4mm	3
		Washer 3 x 10 x 0.5mm	1
		Washer 4 x 16 x 1mm	3
		Spring washer 3mm	3
		Spring washer 4mm	3
		Fiber washer 3.3 x 8 x 0.5mm	3

SCHEMATIC DIAGRAM (TP1200)



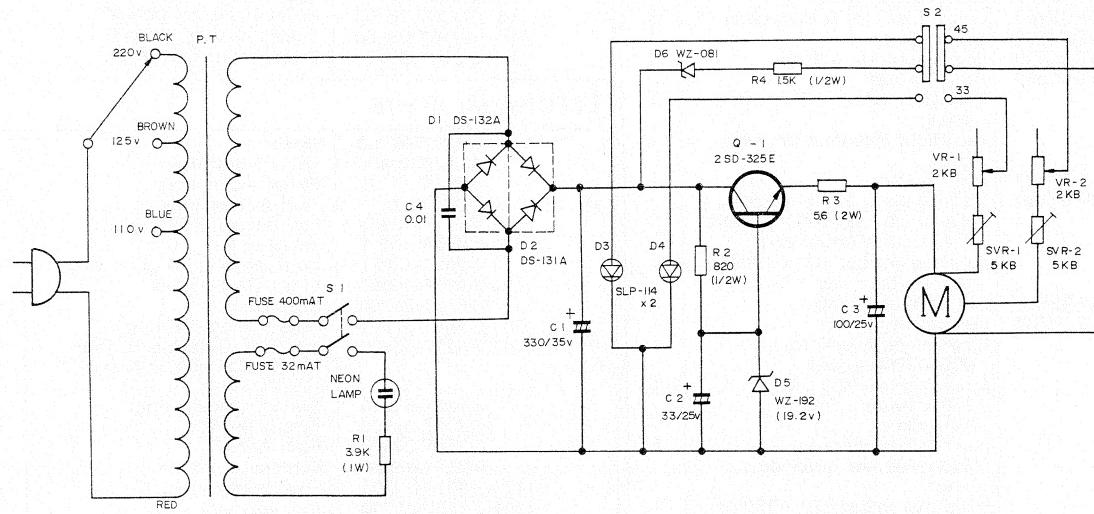
WIRING DIAGRAM (TP1200)



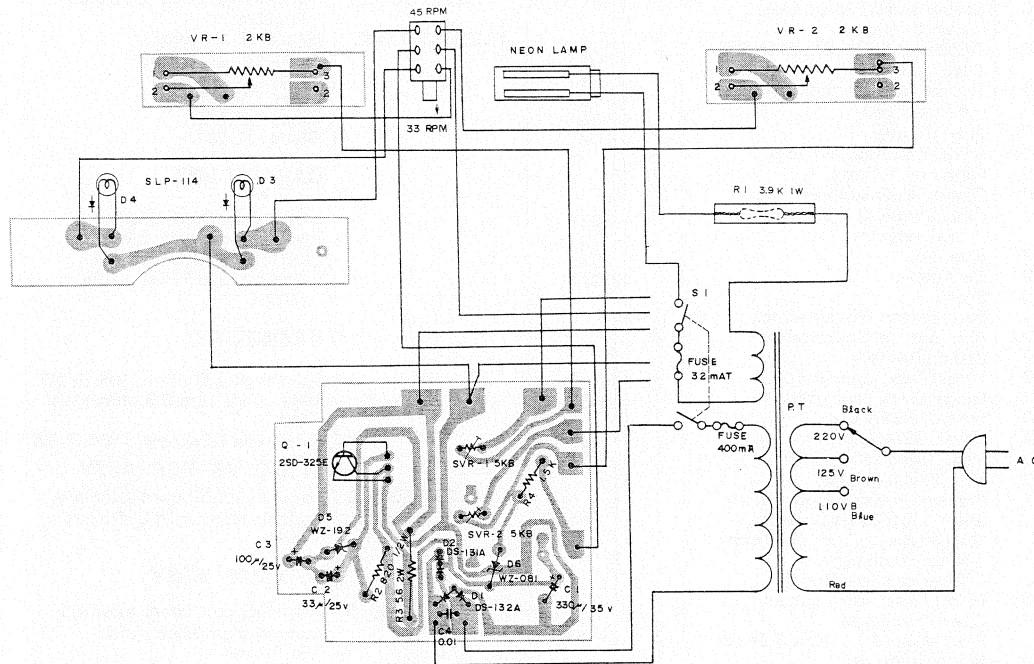
PARTS LIST (TP1200UM)

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
PACKING				CABINET			
	141-6-113T-56203	Individual carton	1		141-6-472T-14100	Caution label	1
	141-6-144T-29700	Styrol filler, Set & Dust cover	2		141-6-476T-05700	Indication label 400MAT	1
	141-6-144T-27500	Styrol filler	1		141-6-476T-05800	Indication label 32MAT	1
	141-6-316T-67400	Pad, Dust cover bottom	1		141-0-864T-001910	Bracket assembly, Mirror	1
	141-6-316T-67500	Pad, Top side	1	ELECTRICAL PARTS			
		Pad 300 x 300mm, Turn table under	2	S1	4-527T-08700	Motor	1
		Pad 458 x 355mm, Turn table top	2		4-251T-48400	Power transformer	1
	141-6-316T-67800	Pad, Top side	1		4-243T-77172	Power supply cord	1
	141-2-143T-66300	Marking plate, 33/45 indicate	1		4-231T-43171	Push switch, Power	1
		Polyethylene bag 100 x 200mm, Power cord Output cord	2		4-231T-42300	Push switch, 33/45 select	1
		Polyethylene bag 100 x 100mm, Oil case Cartridge	2		123-2-472R-11200	Terminal lug	1
	141-6-316T-62500	Pad, Dust cover mtg.	2		4-243T-13200	Cord assembly, Output cord	1
	141-6-411T-75200	Instruction booklet	1		123-2-464R-10901	Fixer, Output cord	1
		Inner polyethylene bag 600 x 700mm, Set	1	R1	4-612T-04700	Neon lamp	1
		Inner polyethylene bag 350 x 400mm, Sheet & Turn table	2		141-2-163T-30500	Rotary knob, VR mtg.	2
		Inner polyethylene bag 550 x 700mm, inside dust cover	1		141-2-327T-06900	Insulator, Output cord fixer	1
		Polyethylene bag 250 x 350mm, Instruction booklet, etc.	1			Metal oxide film 3.9K ohm ±10% 1W	1
	141-6-455T-01101	Serial number plate	2			Switch, Voltage select	1
	141-6-415T-12400	Notice, Swedish	1			Fuse 400mAT	1
	141-6-415T-06700	Notice, Power switch	1			Fuse 32mA	1
ACCESSORIES						Terminal	1
	141-0-197T-001911	Oil pack assembly	1			Fuse, holder	2
CABINET						Arm assembly	1
	141-0-121T-131912	Deck panel assembly	1			Lifter assembly	1
	141-0-194T-003912	Dust cover assembly	1			Rest assembly	1
	141-2-361T-11100	Bracket, Speed select switch mtg.	1			Weight assembly, Main weight	1
	141-2-421T-13800	Special screw, Speed select switch mtg.	3			Weight assembly, Sub weight	1
	141-2-445T-05000	Rubber cushion, Speed select switch mtg.	3			Weight assembly, Lateral balance weight	1
	141-2-445T-16000	Rubber cushion, EXIT the output cord	1			Base assembly, Lifter base	1
	141-2-461T-20700B	Pipe, PT mtg.	2			Head shell	1
	123-2-445R-01600	Rubber cushion, PT mtg.	2			Cartridge assembly w/stylus	1
	141-2-411T-04700	Plate nut, PT mtg.	2			Stylus	1
	141-2-352T-12600	Spacer, LED support	2	POWER PCB ASSY			
		Fiber washer 3 x 8 x 1mm, LED support	3			Printed circuit board assembly, Variable resistor 5KB, Speed variable	1
	141-2-126T-17700	Back lid	1			Heat sink, Q1 mtg.	1
	141-2-118T-00200	Turn table	1			Transistor 2SD325 E	1
	141-2-246T-08700	Sheet	1			Diode DS-132 A	1
	141-2-161T-26501	Push button, Power switch	1			Diode DS-131 A	1
	141-2-161T-26600	Push button, Speed select	2			Diode WZ-192	1
	141-0-174T-00200	Stand assembly	4			Diode WZ-081	1
	141-2-251T-05900	Hinge, Dust cover mtg.	2	CAPACITORS			
	141-2-251T-06001	Hinge, Deck panel mtg.	2			Electrolytic 33μF 25WV	1
	141-2-352T-14300	Spacer, 45 adaptor	1			Electrolytic 100μF 25WV	1
	141-2-135T-40400	Cover, 33/45 select	1			Electrolytic 330μF 35WV	1
	141-2-241T-15800	Veil, Speed select switch	1			Ceramic 0.01μF +80 -20%, 50WV	1
	141-2-241T-15900	Veil, Power switch	1	RESISTORS			
	141-2-365T-31701	Bracket, Power supply switch	1			Solid type 820 ohm ±10% 1/2W	1
	141-2-246T-08600	Sheet, Dust cover protect	1			Metal oxide film 5.6 ohm ±10% 2W	1
		Rubber sheet 17 x 10 x 1mm, Neon lamp mtg.	1			Solid type 1.5K ohm ±10% 1/2W	1
	141-2-445T-18200	Rubber cushion, Stand	1	SLIDE VR PCB ASSY			
	141-2-464T-20500	Fixer, Power cord output	1			Printed circuit board assembly, Variable resistor 2KB, Rotary slide	2
	141-2-135T-42100	Cover, Head shell	1	LED PCB ASSY			
		Fiber sheet 3.2 x 10 x 3.2mm	3			Printed circuit board assembly, Luminous emission diode SLP-114	1
	141-2-441T-04800	Felt cushion, PT	1				2
	141-2-322T-28200	Shield plate, Under arm	1				
	141-2-352T-19300	Spacer, Under the terminal board	2				
	141-2-367T-28800	Bracket, Power supply cord socket	1				
	141-2-135T-42400	Cover, Fuse holder	1				
	141-2-371T-06801	Bracket, PT mtg.	1				
	141-6-479T-16301	Label, Stylus mirror	1				

SCHEMATIC DIAGRAM (TP1200UM)



WIRING DIAGRAM (TP1200UM)



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